

I/We claim:

1. A vessel comprising at least one flexible wall joined to either a first end or a second end, and a septum spaced intermediate said first and second ends, said septum being attached to said flexible walls.
2. The vessel of claim 1, wherein said vessel comprises at least one port for introducing or removing components.
3. The vessel of claim 1, wherein said septum is relatively moveable with respect to said first and second ends.
4. The vessel of claim 1, wherein the septum comprises at least one selected from the group consisting of micropores, a vacuum device, and moveable tubes embedded therein.
5. The vessel of claim 1, wherein at least one of said first end and said second end comprises a isolator film and a further septum, such that removal of said isolator film exposes said further septum.
6. The vessel of claim 1, wherein the septum is formed from at least one selected from the group consisting of fabric, metal, plastic and ceramic.
7. The vessel of claim 1, wherein the septum is rigid.

8. The vessel of claim 1, wherein said septum has an open area, as a percentage of total area of said septum, between approximately 10 and approximately 90%.
9. The vessel of claim 1, further comprising at least one perfusion filter positioned in said vessel.
10. A device comprising the vessel of claim 1, wherein the vessel is located on a rocking platform.
11. A method comprising:
repeatedly relatively passing a fluid from a first chamber to a second chamber in a vessel, including passing said fluid through a septum.
12. The method of claim 11, further comprising removing gas from at least one of the first chamber and the second chamber.
13. The method of claim 11, further comprising introducing an inert atmosphere to at least one of the first chamber and the second chamber.
14. The method of claim 11, wherein said method is at least one selected from the group consisting of mixing, reacting, fermenting, filtering, sterilizing, lysing and ion exchanging.

15. The method of claim 11, further comprising at least one of heating and cooling the fluid in the vessel.

16. The method of claim 15, wherein said heating or cooling comprises passing a heating or cooling fluid through the septum.

17. The method of claim 11, wherein said passing comprises moving the septum through the fluid.

18. The method of claim 11, further comprising collapsing a wall of the vessel.

19. The method of claim 11, further comprising introducing a second component into the vessel.

20. The method of claim 11, further comprising introducing or removing a second fluid from the vessel.

21. A method for treating material comprising:
relatively moving a first fluid in a vessel through a first septum to preform a first treatment, and
relatively moving the first fluid through a second septum to perform a second treatment, wherein said first treatment and second treatment are independently selected from the

group consisting of filtering, mixing, reacting, heating, cooling, sterilizing, fermenting, and lysing.

22. The method of claim 21, further comprising removing an isolator film to expose the fluid to the second septum.